

# Supporting Information

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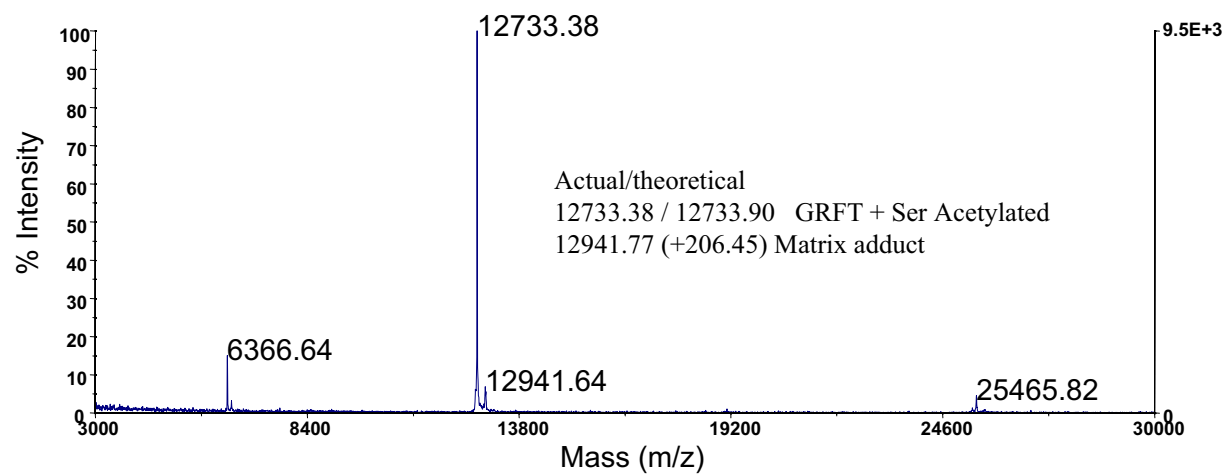
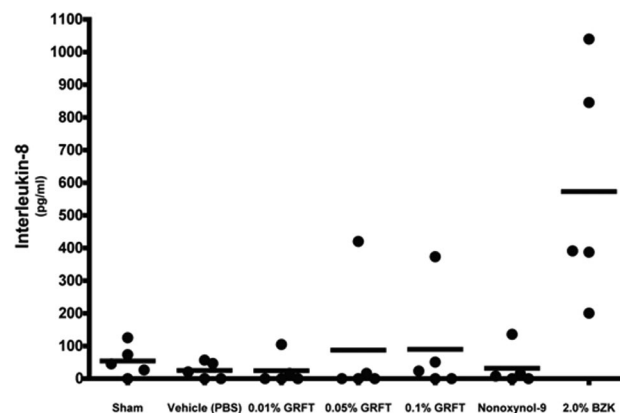


Fig. S1. The spectrogram from MALDI-TOF mass analysis of GRFT-P isolated from *N. benthamiana* plants. The major product is N-acetylated full-length GRFT-P.



**Fig. S2.** Mean IL-8 from the GRFT-P rabbit vaginal irritancy study. Vaginal swabs were taken on day 11 from each of 5 test rabbits after 10 days of continuous dosage with the various treatments [sham, PBS, 0.01%, 0.05%, and 0.1% GRFT-P, Conceptrol, and 2.0% BZK (cytokine positive control)]. Mean IL-8 levels from the 5 rabbits were determined in comparison with standard recombinant rabbit IL-1 via ELISA. All test samples were measured in duplicate.

**Table S1. Monoclonal antibody and soluble CD4 sensitivities of virus isolates used in testing antiviral activity of GRFT-P (compare with Table 1)**

Virus name	IC <sub>50</sub> in TZM-bl cells (μg/mL)*				
	sCD4	IgG1b12	2G12	2F5	4E10
6535.3	0.8	1.4	2.0	1.9	0.2
QH0692.42	0.5	0.3	2.8	1.0	1.4
SC422661.8	4.7	0.2	2.1	0.7	0.9
PVO.4	6.7	>50	1.2	>50	6.5
Du156.12	13.4	0.8	>50	>50	0.2
Du172.17	1.7	1.0	>50	>50	0.3
CAP45.2.00.G3	26.0	0.7	>50	>50	2.6
CAP210.2.00.E8	3.4	20.4	>50	>50	1.2
Q23.17	11.1	>50	>50	2.9	1.3
Q168.a2	5.6	>50	>50	3.2	2.3
Q461.e2	15.0	>50	>50	4.1	2.0
Q259.d2.17	9.7	>50	>50	7.1	8.5

\*Values are the concentration at which RLU were reduced 50% compared with virus control wells.